Integra IQ@Home

user manual v1.2

cybroTech

www.cybrotech.co.uk

Home automation

sensors - controllers - actuators - interface

IQ

comfort

energy saving

security

safety

simple

flexibile

cost-effective

Integra IQ is a system of devices and software mainly targeted for home automation. Primary function is control of home equipment - lights, blinds, heating and cooling; but it can also cover more sophisticated functions, like energy management.

It consists of simple autonomous units which together create a complex and unique system. Units are connected to each other with a common power supply and communication bus. Units may be combined in many different ways.

Although basically very simple, expansion capabilities are virtually unlimited. System is configurable, programmable, and two or more basic systems can integrate together.

Integra IQ can be used equally well both for new projects and adaptations. For a basic functionality, the only specialist needed is electrician.

No expert is needed for project (generic project can be used for most installations), programming (basic functions are available out of the box), or configuration (system is configured by user).

User can select units without assistance, there are no complicated compatibility or dependency rules. Use what you like now, upgrade any time later.

Main features

many unique features, accent on integration

simple to install and configure

control anything from anywhere

scalable - build system like stacking bricks

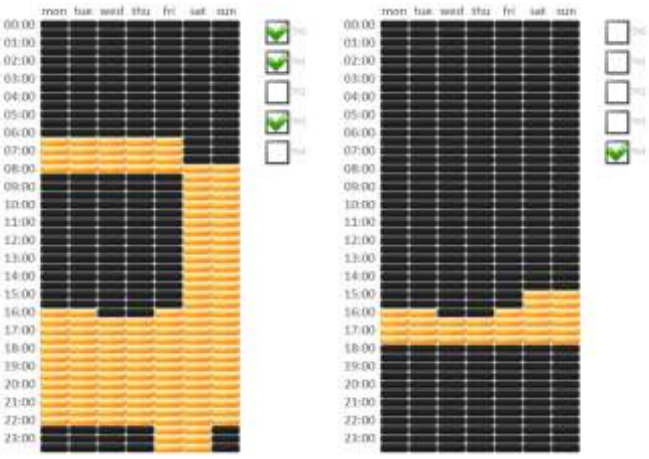
use smartphone to let system know about you, when you are at home, when you are waking up and going to sleep

basic functionality
plug ‘n’ play, works out of the box, without expert action needed

advanced functionality
custom functions are available as additional software modules, prepared by our experts to meet up to your most exquisite requests

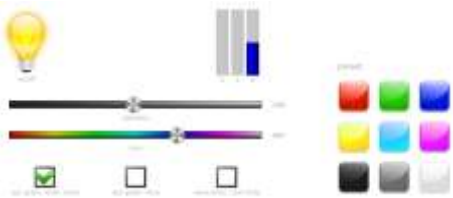
configurable - you are in charge to determine what happens automatically, and what you prefer to do manually, system will never stand in your way

Multiple timetables

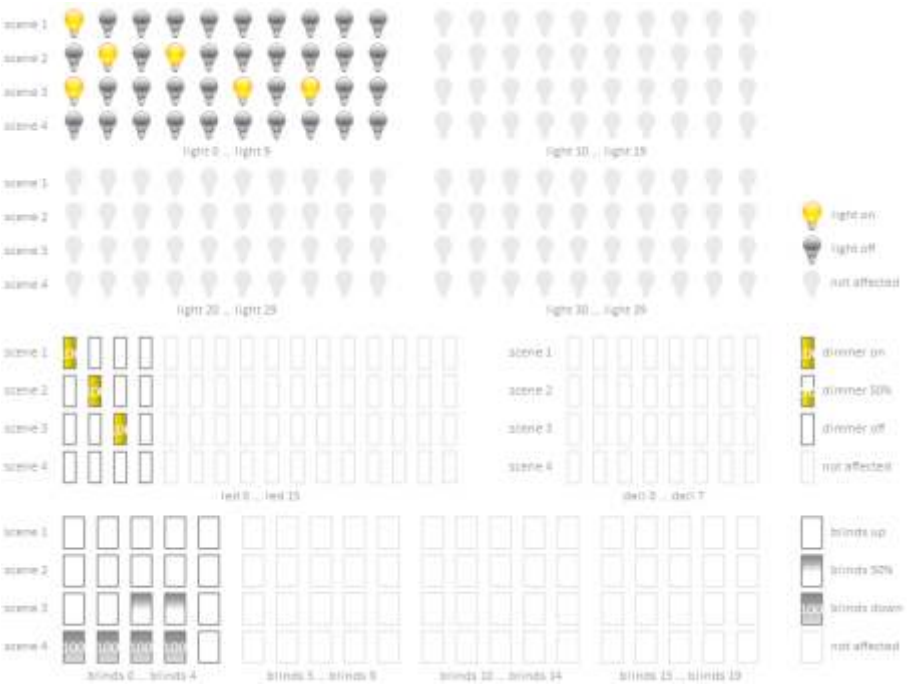


Set things running up to your schedule. To configure the timetable, select active hours, then select devices which should be affected. You can manually override device state at any time.

RGB control panel



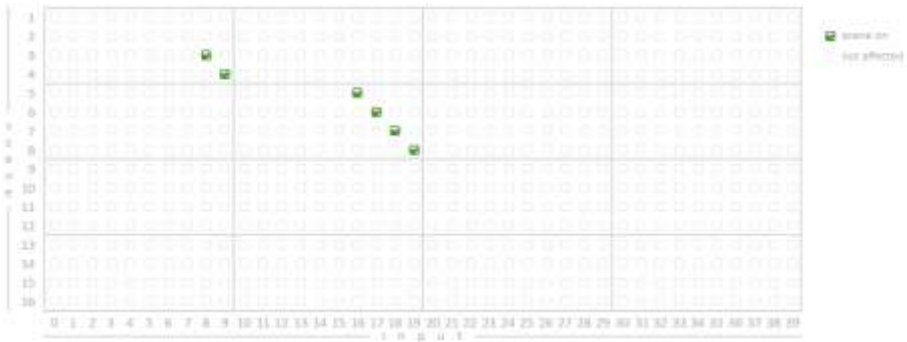
RGB mode allows control of brightness and color, instead of individual channels. In color temperature mode, output goes between different temperatures of white, matching interior and exterior light.



Scene editor

Scene is user-defined memory including lights, dimmers and blinds. Each output is either defined by scene (on/off, lightness and position), or not affected.

Each scene controller comes with a four programmable scenes. Scene may be defined by controller (long press), or by mini scada (scene editor).



Scene matrix

Use an input to set a scene.

Especially useful in a large rooms, where lights can be always at your fingetips.

Light matrix

Light matrix provide user-defined connection between inputs and outputs. Light on means input will turn the selected output on and off. Light off means the output will be turned off, each time the input is activated. Blinds are not affected.

Column can also be activated by an event, hugely extending the number of available combinations. Column can be used, even when associated controller is not connected.

Light matrix is a perfect solution for secondary lights, such as hallway, porch, garden, garage and others.

Warm wake up
Wake up into a warm house. System will turn heating on a predefined number of minutes before the smartphone alarm rings, whenever you set the alarm.

Sunny wake up
Wake up naturally, by slowly lifting bedroom blinds and letting the sun does its bussiness a few minutes before the alarm clock rings.

Coming home
Let your house show how happy it is when you get home! When phone detect home wi-fi network, it turns the heating on, and optionally lights.

Leaving home
When you leave the house, a few minutes after phone disconnects from home wi-fi network, system will turn the heating off, and also the lights.

Connect charger
Charge your phone every day at the evening, in moment when you are already in bed? Use that action to also turn heating and lights off.

Disconnect charger
Disconnect charger every morning, just before you get out of the bed? Use that action to automatically turn heating and lights on, but only if sunlight is still low.

Call notification
When you receive a call, selected light will turn on and off couple of times, to bring attention when phone is away or silenced.

Text notification
When you receive a text message, selected light will turn on and off couple of times, to bring attention when phone is away or silenced.

Smart lights
In the evening hours, when sunlight goes down, automatically set evening scene, turn on the lights and lower blinds. Works only when tenants are at home.

Random lights
When nobody is at home, prevent burglary by a simple deception: turn lights on and off to leave impression that house is not empty.

Bio offset
Following your natural biological rhythm (chronotype), let the house be just a little warmer at the specified time of the day, morning or evening... or both.

Eco mode
Manual setpoint adjustment will be valid for about one hour, then it will slowly return to the predefined, more optimal value.

The most frequently used function of a home automation is - how to turn the damn thing off. However, regardless the infamous attitude towards smart machines, we strongly believe Integra will gradually grow up into your daily routine. Events are based on your smartphone, all the chances are that you already have one in your pocket. You are in charge to pick events and assign actions up to your preferences. Give it a chance, you won't be dissapointed.

Tech hints

under the hood

Professional design
Cybrotech originate from industry control and automation, all devices are designed and build up to a much higher standards then usually expected in home automation.

Features
- hardware watch-dog
- transient supression
- short circuit tolerant outputs
- reverse polarity tolerant supply
- wide temperature range

Automatic addressing
Devices are addressed automatically, not a single address is set by user.

Firmware upgrade
All devices are build to implement firmware upgrade, so the future for your investment is assured.

Extremely fast response
From keypress to action, typical lag is less then 10 milliseconds.

CAN bus is a multi-master, deterministic bus which offer optimum between performance, network architecture and cost.

Low power consumption
Whenever relevant, we take care to use as little electricity as possible.

Autorange potentiometer inputs ensure a full scale motion, whichever device is connected.

No batteries
The whole system is operated from a single 24V power supply.

No hidden costs at any level - everything is simple and elegant (and beautiful, too).

Programming tools are free, everybody is welcome to participate. Only a basic programming skills are needed. Join our group and discover how fun and simple house automation can be.

Wire or wireless:
- more reliable
- faster response
- need no batteries
- less EMI pollution
- simpler setup
- lower price

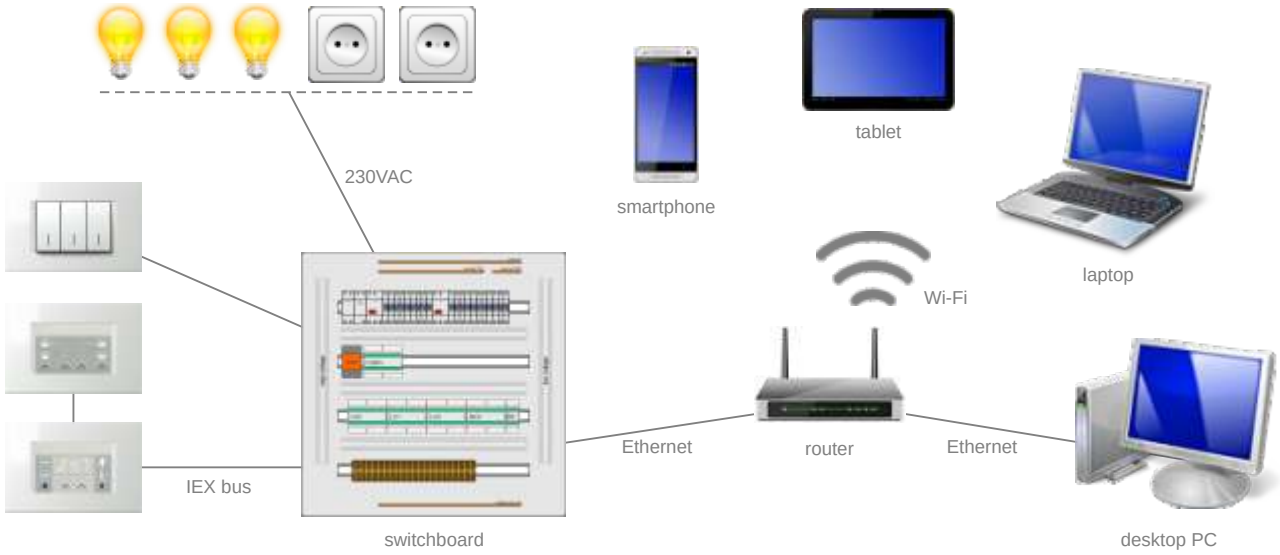
We don’t sell switches, luminaries, computers, portable devices, tablets or phones; you have a freedom to select anything you like, buget models or overpriced designer items. What we do sell is electronics, software and home automation experience at it’s finest.

System upscale

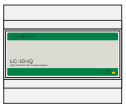
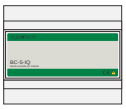
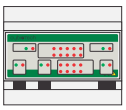
project-based features

Integra IQ offer many out-of-the-box functions. However, modern home automation is all about integration, and that is where the IQ excels. Integra, as the name says, tend to be the network capable of connecting various devices into a functional system. Integration is project-based, each home is carefully attuned to investor and building requirements.

Basic IQ system



Devices

Device		Used for	
	LC-10-IQ light controller		led and halogen downlighters all kinds of general-purpose lights
			managed sockets floor lamp, hi-fi system, projector all kinds of appliances
	LD-V4-IQ LED dimmer		LED stripes, white and RGB
	LD-D8-IQ DALI controller		all kinds of dimmable lights
	BC-5-IQ blinds controller		window blinds, shutters and jalousies
	SC-4O-IQ scene controller		user-programmable arrangement of lights and blinds
	SC-4S-IQ scene controller		
	TH-1-IQ thermostat		heating, cooling and fan control
	FC-1-IQ fan-coil controller		
	CyBro-2-IQ programmable controller		smartphone and mini scada connection automation, timetable and many other functions

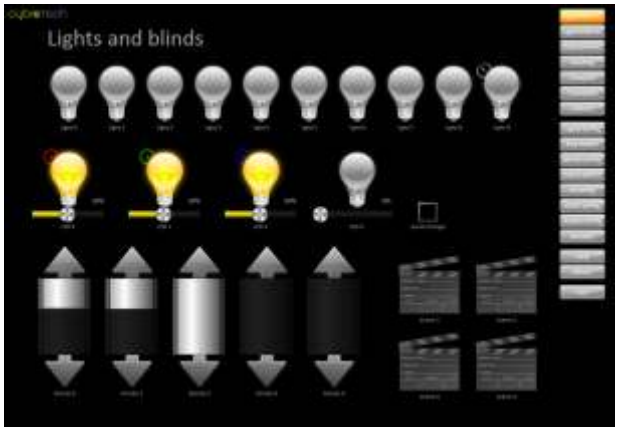
Software

CyBro IQ Commander

- for Android phone or tablet
- control lights, blinds and thermostats
- presence and alarm events
- fully automatic installation

CyBro IQ Mini Scada

- for Windows PC or laptop
- control lights, blinds and theromostats
- graphical configuration for all devices
- fully automatic installation



CyBro IQ Simulator

- for Windows PC or laptop
- simulate most devices
- used to check how the system is working, without actual devices

Labels and numbers

IQ devices

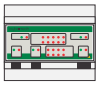
4x		LC-10-IQ light controller	40x on/off lights
4x		LD-V4-IQ LED dimmer	16x dimmable LEDs 8x dimmable DALI groups
1x		LD-D8-IQ DALI master controller	
2x		BC-5-IQ blinds controller	10x blinds
4x		SC-4-IQ scene controller	16x scenes
5x		TH-1-IQ thermostat	5x regulation zones
5x		FC-1-IQ fan-coil controller	
1x		CyBro-2-24 programmable controller	smartphone connection, timetable, automation and more

Table shows maximum capabilities of a basic IQ system. When more devices are needed, simply connect devices into more separated systems - for example, use one system for the ground floor, and other for the first and second floor.

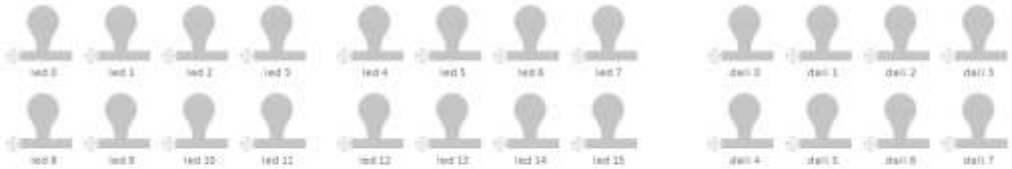
Systems can be connected into a single logical unit using the local wi-fi or ethernet network.

As addresing is fully automatic, each connected device gets default name from the system. User can change that name at any time, giving name based on position, function, or anything alike.

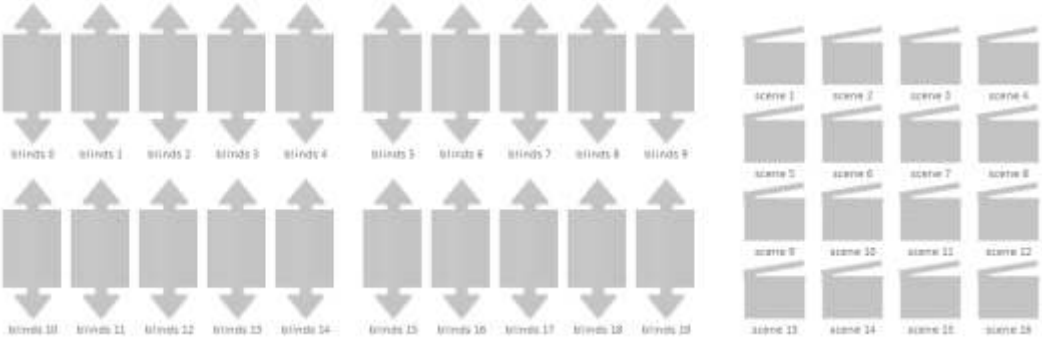
Given name can be in any desired language.

Naming convention

on/off lights



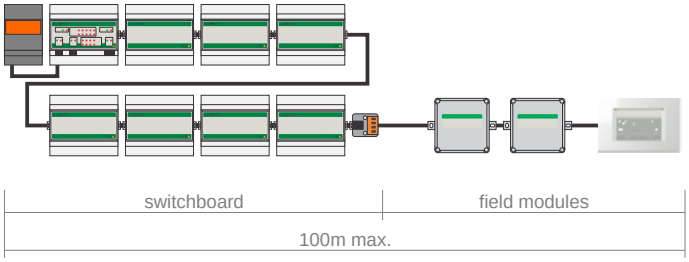
dimmable LEDs
dimmable DALI



blinds and scenes

Wiring

Switchboard and field modules



Power supply must be connected to the first (leftmost) device. When devices are powered up for the first time, autoaddressing will be started automatically. If devices are later rearranged or replaced, autoaddress commend must be issued from device (60s longpress) or mini scada (devices page).

Devices inside switchboard are addressed sequentially, from left to right. Devices outside of switchboard (field modules) are addressed in order of ascending serial numbers - lowest serial number gets the first address, second lowest the second, and so on.

Inside the switchboard, bus is connected with 4x flat cable and RJ9 connectors. Outside the switchboard, bus is connected with a unshielded twisted-pair cable and orange push-wire terminals.

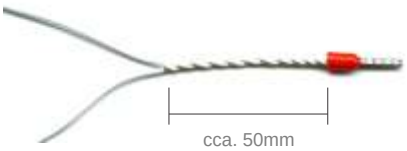
Maximum bus length is 100 meters. Up to that length, bus can be connected with no special rules. Longer length is possible with the following conditions: cable should be connected in line (no branches or trunks), and the last device should be terminated with 120ohm resistor between CANL and CANH terminals.

Connecting wires

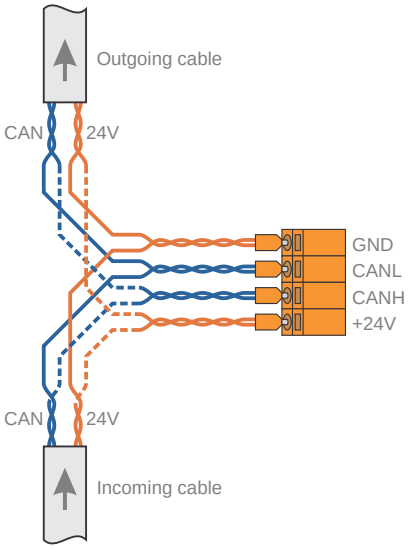
1. Take one ingoing and one outgoing wire together, and remove insulation for about 10-12mm.

2. Crimp wires together into a ferrule.

3. Wrap wires together for a few centimeters. Repeat steps 1 to 3 for all four bus wires.



4. Push ferrules into clamps. No tools are needed.

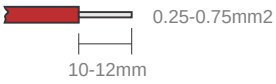


Recommended bus cable

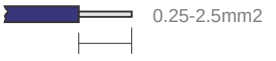
unshielded twisted pair 2x2 0.5mm2

Wire stripping

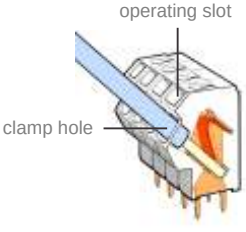
Bus wires (orange terminals)



Other wires (gray terminals)



Push-wire handling



Solid wire insertion

1. Push wire in the clamp hole

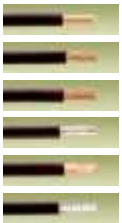
Stranded wire insertion

1. Push screwdriver in the operating slot
2. Insert wire in the clamp hole

Solid/stranded wire removal

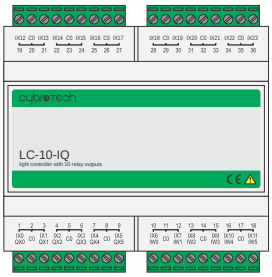
1. Push screwdriver in the operating slot
2. Remove wire

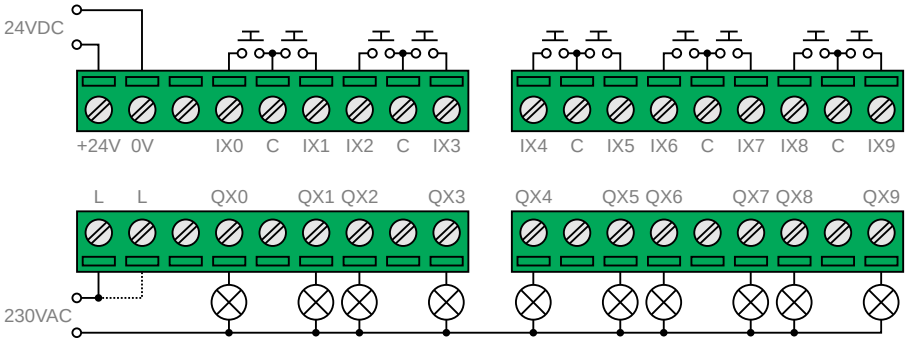
Wire type



LC-10-IQ light controller

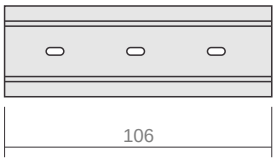
10 relay-controlled outputs





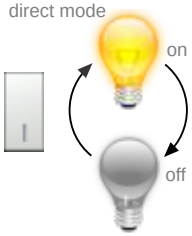
When total output power is 2kW or more, connect mains power supply to both L terminals.

Mounting: DIN rail



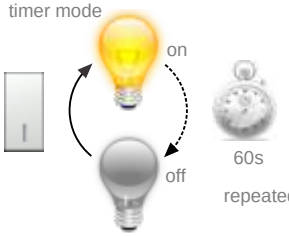
Features

direct mode



each input affect their coresponding output

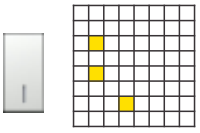
timer mode



input turns lights on, and they automatically goes off after predefined time

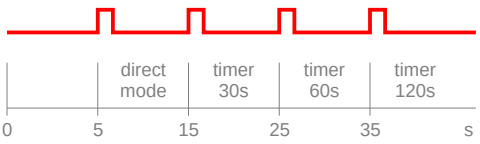
repeated press reloads the timer

matrix mode



input/output connections are given by matrix (only with CyBro controller)

Longpress summary



protection from unauthorized access

power outage:
<10min - lights come back
>10min - lights stay off

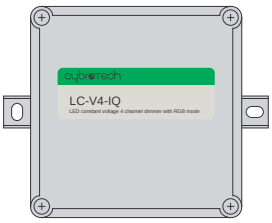
managed socket
connect output to a socket, and control devices like floor lamp, hi-fi system, video projector...

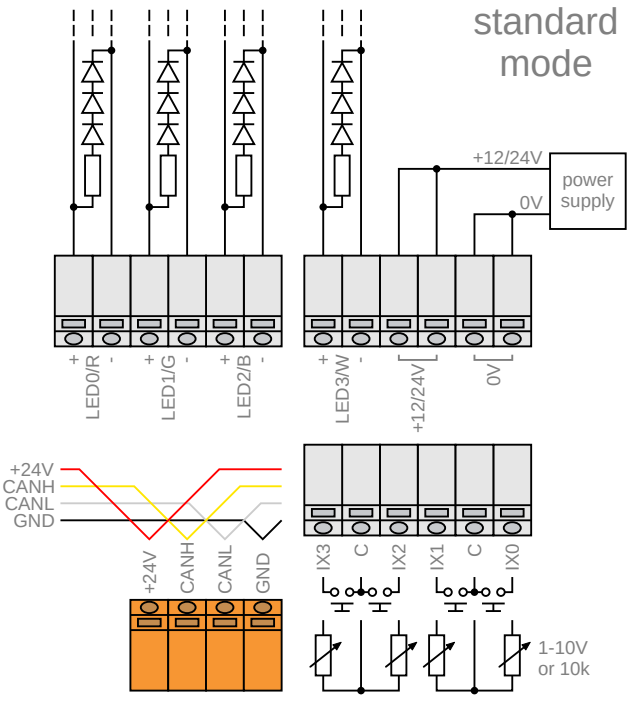
IEX-2 © IQ

Output power per relay:	
- incadescent / halogen 230V	800W
- halogen 12V with transformer	400W
- fluorescent with electronic ballast	400W
- parallel compensated fluo lamps	250W/30uF
Total output power (all relays):	4000W
Maximum input cable length:	50m
Power supply:	24V/120mA
Ingress protection:	IP20
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Dimensions:	106x108x58mm
Weight:	250g
Standards:	EN 61000-6-2 EN 61000-6-3 EN 60730-1

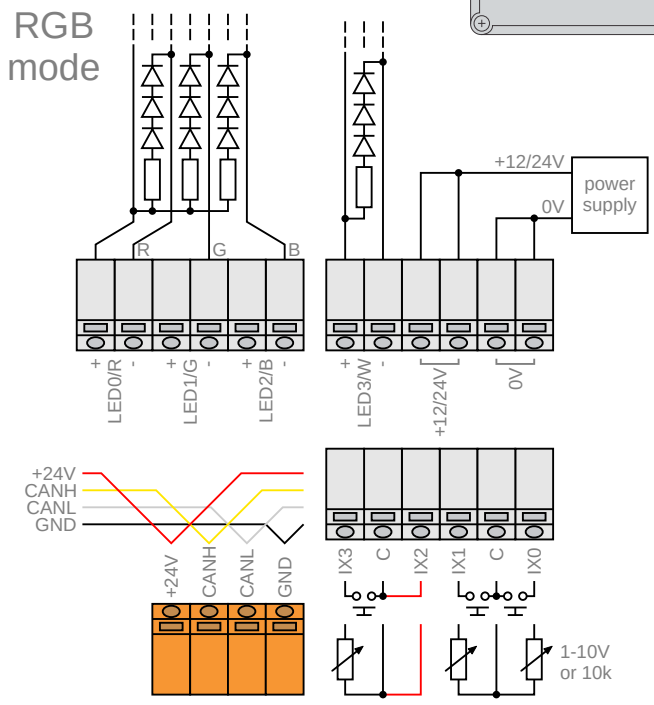
LD-V4-IQ LED dimmer

4-channel 12/24V constant voltage PWM dimmer





button/pot can be mixed



button/pot can be mixed

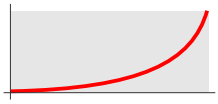
Features

button or potentiometer input:
- use a control type you prefer
- combine channels as you like
- autodetect input type
- potentiometer auto-range

RGB mode
control lightness and hue
instead of individual RGB

color temperature mode
adjust hue in range from
warm white to cold white

exponential output control:
- more natural feel
- lowest level is 0.025%
- smooth output transition



500Hz

high frequency PWM operation:
- no flickering
- prevent eye-strain or headache
- superb power efficiency

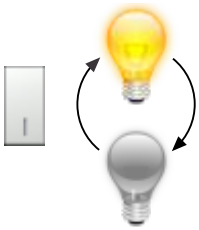
channel phase spreading:
- EMI noise reduction
- further reduce flickering
  at very low output levels

max load	
output	supply
1x10A	1x10A
2x10A	2x10A
3x6.7A	2x10A
4x5A	2x10A

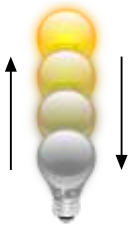
power outage:
<10min - lights come back
>10min - lights stay off

Output protection:
- overcurrent
- overvoltage
- undervoltage
- watch-dog

Button operation



short press: on/off



long press: 1..100%

IEX-2 © IQ

LED power supply:	12/24V (10..28V)
Total output power:	240W@12V 480W@24V
Total power loss:	2W@3x6.7A
Max current per terminal:	10A
PWM frequency:	500Hz
Output resolution:	12-bit
Power supply:	24V/25mA
Galvanic separation:	supply/outputs
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Standards:	EN 55015 EN 61000-3-3 EN 61547 EN 61347-1 EN 61347-2-13

Mounting: in-field, junction box or drywall

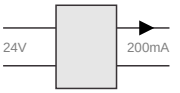
LD-D8-IQ DALI master

ballast controller for 8 DALI groups

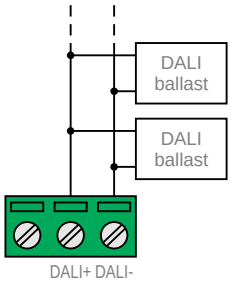
Features

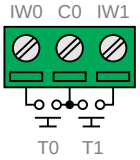
8x — 8 independent DALI groups

64x — maximum 64 DALI ballasts

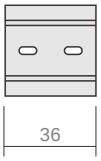


internal DALI current source, no additional power needed

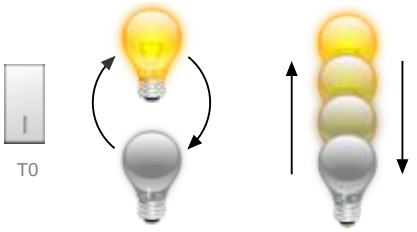




Mounting: DIN rail

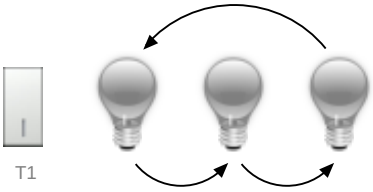


Button operation



short press: on/off

long press: 1..100%



short press: select next channel
long press: set the last channel

Ballast configuration

Organize your ballasts into groups with group address in range 1 to 8.
DALI master can control each group, but can't control individual ballasts.

Longpress summary

SET - set current channel as last
RESET - cycle all eight channels

Dimmable options

incandescent lights

fluorescent

compact fluorescent

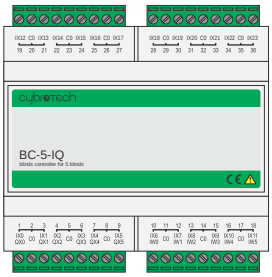
LED lights of any kind

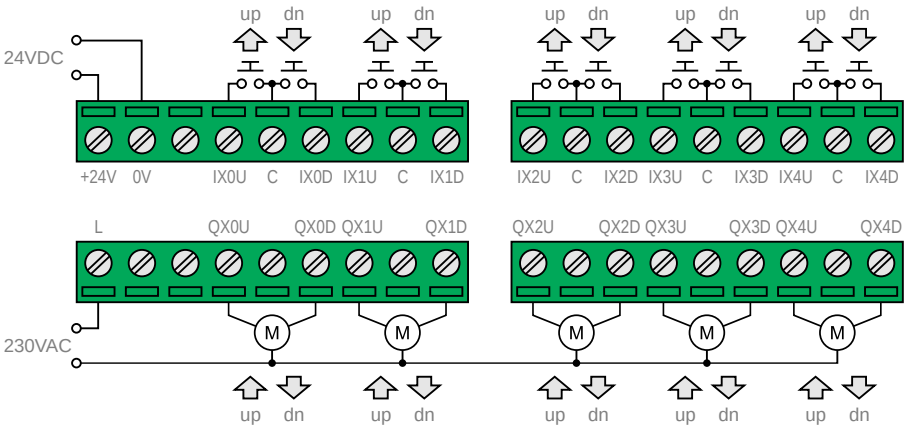
IEX-2 © IQ ⧈ CE

Digital inputs:	internal pull-up 12V, 2mA
DALI output:	max. 64 ballasts/200mA
Power supply:	24V/100mA
Galvanic separation:	none (DALI must be SELV)
Ingress protection:	IP20
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Mounting:	DIN rail (35mm)
Dimensions:	36x108x58mm
Weight:	125g
Standards:	EN 61000-6-2 EN 61000-6-3 EN 60730-1

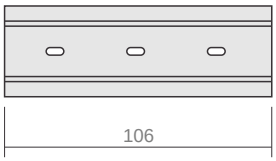
BC-5-IQ blinds controller

5x blinds position controller



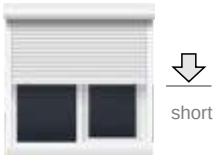

24VDC
up dn up dn up dn up dn up dn
+24V 0V IX0U C IX0D IX1U C IX1D
IX2U C IX2D IX3U C IX3D IX4U C IX4D
L QX0U QX0D QX1U QX1D
QX2U QX2D QX3U QX3D QX4U QX4D
230VAC
M
up dn up dn up dn up dn up dn

Mounting: DIN rail

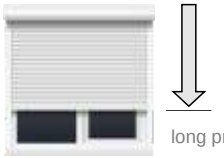


Features

short press: move up/down

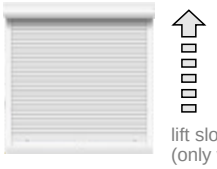


short press: stop at the position



long press: stop when released

75%
move to predefined position
(only with scene controller)



lift slowly for a quiet wake-up
(only with CyBro controller)

Travel time setup

Step 1	Step 2	Step 3	Step 4
press up and hold untill blinds reach top position	2x confirm press up and hold (cca. 60s) until controller confirms	2x confirm press down and hold until blinds reach bottom	2x confirm press up and hold until blinds reach top

up and down butons
for simple operation

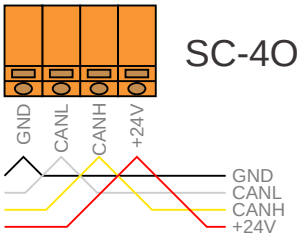
automatic correction
at boundary position

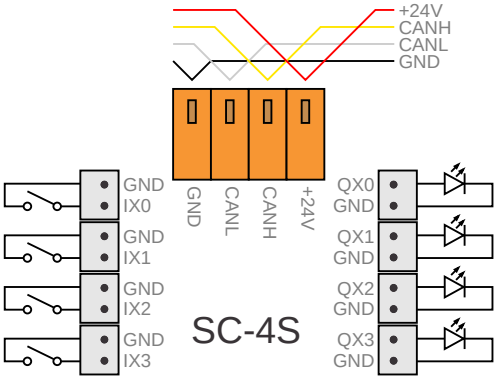
IEX-2 © IQ

Output power per relay:	200W
Total output power (all relays):	2000W
Maximum input cable length:	50m
Power supply:	24V/60mA
Ingress protection:	IP20
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Dimensions:	106x108x58mm
Weight:	250g
Standards:	EN 61000-6-2 EN 61000-6-3 EN 60730-1

SC-4-IQ scene controller

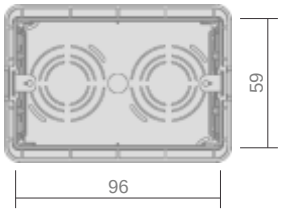
4 buttons and 4 scenes, IR receiver





Mounting: inside junction box

Mounting: rectangular box 3M



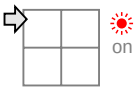
Scene

lights on/off | lights 0..100% | blinds

Features

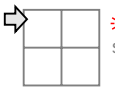
scene consist of lights and blinds
subtractive/additive scene definition
second press make scene inverse
backlight to locate buttons in dark
unobtrusive night mode (4O only)
IR remote receiver (4O only)
protection from unauthorized access

Memorize scene

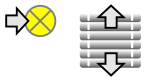


press scene button and hold until LED goes on (cca. 5s)

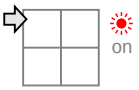
Memorize scene (subtractive)



press and hold button until LED is on with short offs (cca. 15s)



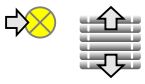
press each light/blinds btn that should **not** be affected by the scene



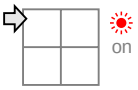
press scene button again - scene is memorized

Memorize scene (additive)

press and hold button until LED is off with short blinks (cca. 25s)

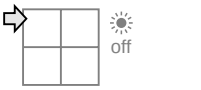


press each light/blinds button that should be affected by the scene



press scene button again - scene is memorized

Backlight on/off



press any scene button and hold until LED goes off (cca. 35s)

First command create a scene that contain all existing lights, dimmers and blinds. To create a partial scene, use subtractive or additive method. Subtractive begins with all devices included, then devices are excluded one by one. Aditive begins with all devices excluded, then devices are included one by one. Scene is memorized with a second scene button keypress.

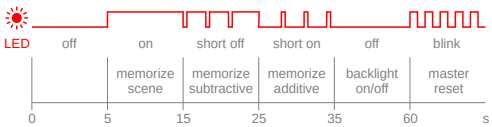
Remote operation

Hardware options

SC-4O-IQ
- 4 scenes and 4 LED indicators
- IR receiver + beeper
- dimensions 67x45mm
- weight 45g
- mount into standard 3M rectangular box

SC-4S-IQ
- 4 scenes + 4 LED indicators
- connect to any existing button system
- extra-small size fits into any mounting system

Longpress summary

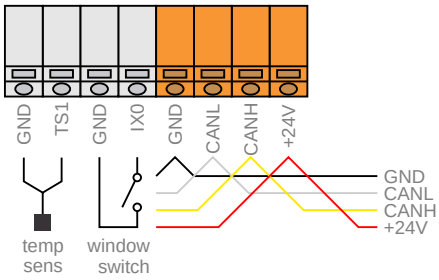


IEX-2 © IQ

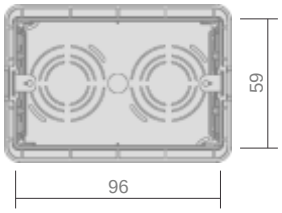
IR remote receiver:	RC5 36kHz
Power supply:	24V/15mA (SC-4O) 24V/35mA (SC-4S)
Ingress protection:	IP20
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Mounting:	rectangular flush box
Dimensions:	122x80x23mm
Weight:	100g
Standards:	EN 61000-6-2 EN 61000-6-3

TH-1-IQ thermostat

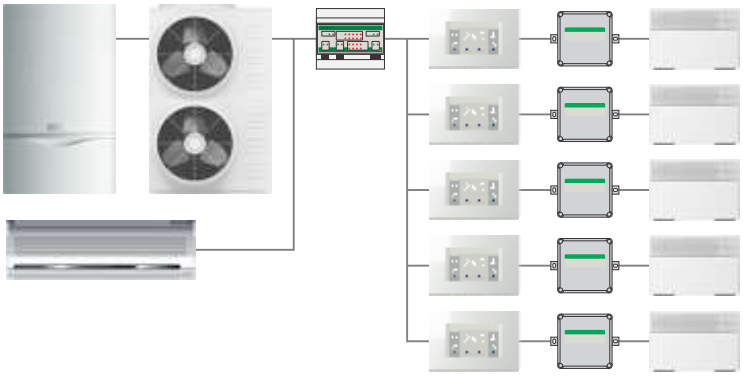
simple electronic thermostat



Mounting: rectangular box 3M



Heating/cooling system

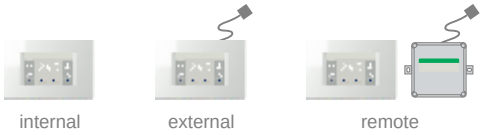


Fan options

F01	fan speed 1
F02	fan speed 2
F03	fan speed 3
F2A	fan speed automatic 1 or 2
FAA	fan speed automatic 1, 2 or 3
600	fan speed 3 with timer

Actuator options

Sensor options



Features

alternate setpoint
when thermostat is off
prevents temperature
extremes

fan max
set heating/cooling to maximum,
for a limited duration

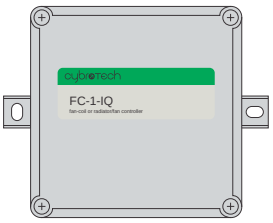
night mode
LED display can lower lightness or
completely shut off during the night

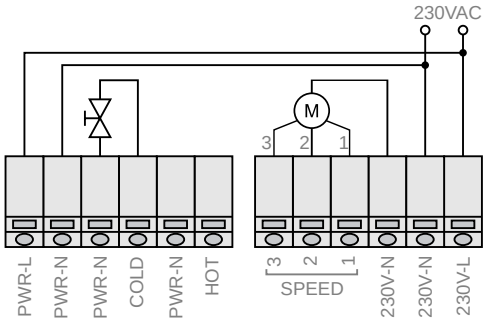
IEX-2 © IQ

Window switch input:	internal pull-up 12V, 2mA
Temperature measurement:	internal or external ES/ES-A
Power supply:	24V/15mA
Ingress protection:	IP20
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Mounting:	rectangular flush box
Dimensions:	122x80x23mm
Weight:	100g
Standards:	EN 61000-6-2 EN 61000-6-3

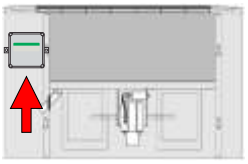
FC-1-IQ fan-coil controller

relay output for fan and valve

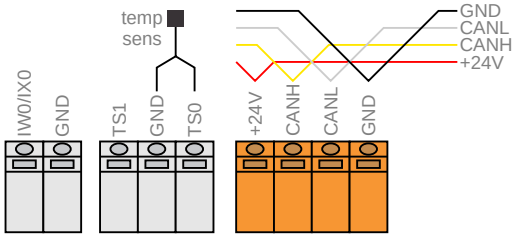




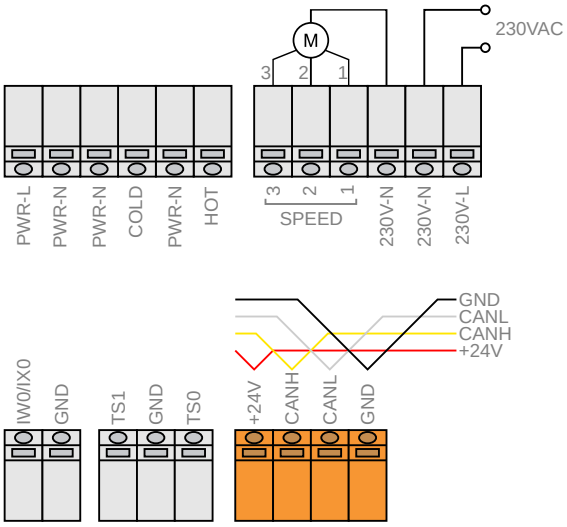
Mounting: inside fan-coil



fan coil
- 2-pipe system
- electromechanical valve
- 3-speed fan
- both heating and cooling



3-speed ceiling fan



Features

simple
no adjustments, no jumpers or DIP switches,
configuration is completely performed on PC

flexible
can be used with a wide range of
home, office and industrial convectors

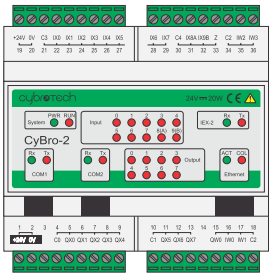
fallback mode
device continue operation even in
case that communication is broken

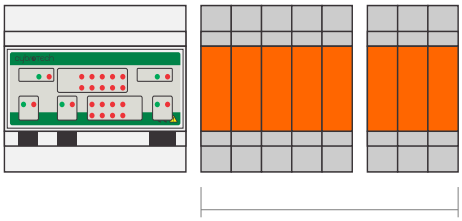
IEX-2 © IQ ⧈ CE

Relay outputs:	3A/250V
Temperature measurement:	external sensor ES or ES-A
Power supply:	24V/45mA
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Mounting:	inside the fan coil unit
Dimensions:	107x86x45mm
Weight:	195g
Standards:	EN 61000-6-2 EN 61000-6-3 EN 60730-1 EN 60730-2-1

CyBro-2-IQ controller

CyBro-2 with Integra IQ program

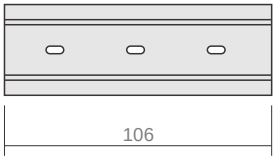


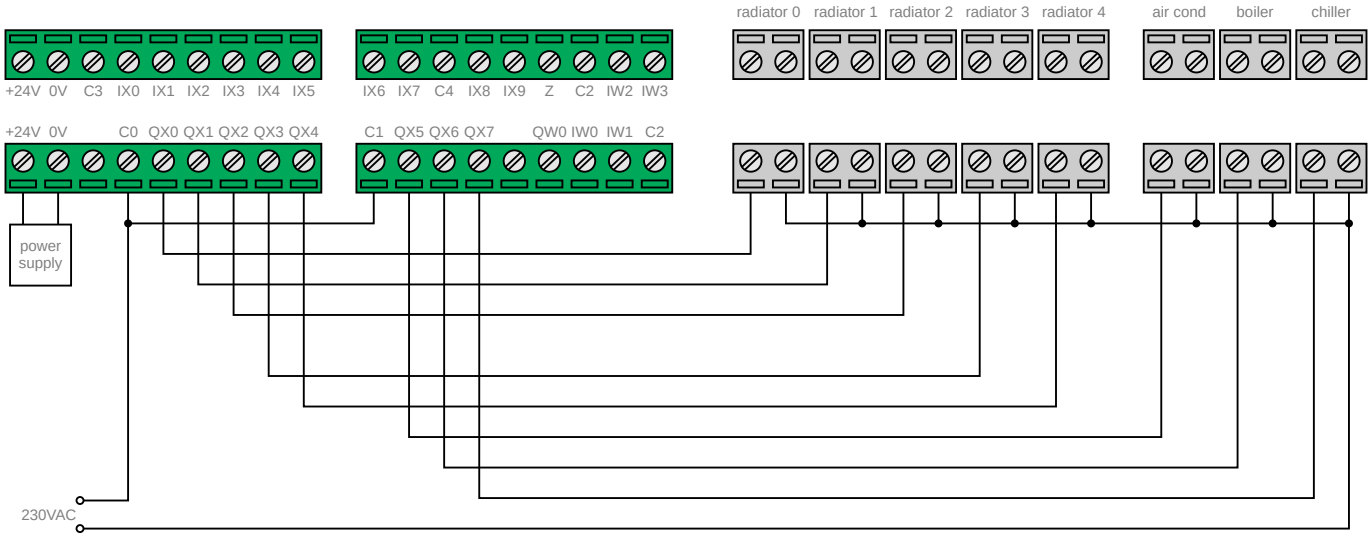


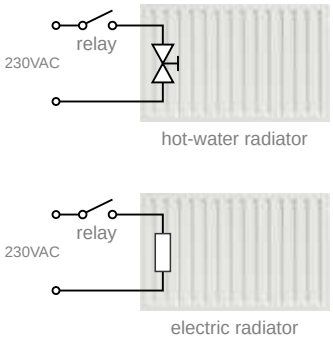
common installation relays 16A/230V

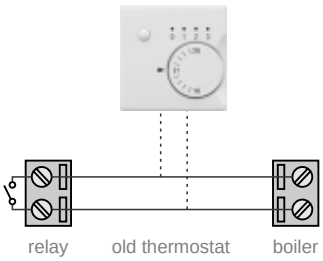
QX0 - radiator 0
QX1 - radiator 1
QX2 - radiator 2
QX3 - radiator 3
QX4 - radiator 4
QX5 - air-condition
QX6 - boiler
QX7 - chiller

Mounting: DIN rail









Relay can be connected as:
- external thermostat contact
- to cut-off power supply

When external load is below 3A (e.g. electrothermal valve), CyBro can be connected directly to load

Old mechanical thermostat can stay connected in parallel, to serve as a backup in case of failure

Without CyBro, IQ devices generally provide a simple output control. Because of networking and processing capabilities, CyBro controller brings many advanced features. It is certainly the heart of the IQ system.

common installation relay 16A/230V

Out-of-the-box features

PC connection over Ethernet

smartphone connection over Wi-Fi

timetable

graphical scene editor

scene matrix

light input/output matrix

boiler, chiller and air-condition control

device configuration

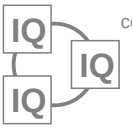
RGB color cycling

custom IR remote

automation events

Project-based features

internet connection



connecting multiple systems into a logical unit

custom functions

new hardware

BMS integration

Out-of-the-box features are available the same moment CyBro controller is connected to the IQ system.

Project-based features usually need some additional programming. Core functionality is already there, but system needs a touch of an expert to get it done exactly according to project specifications. For more details, check ‘Customization’ chapter.

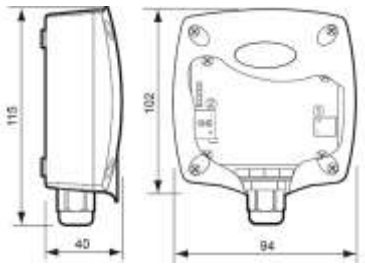
IEX-2 © IQ

Relay outputs:	3A/250V
Communication:	Ethernet, 2x RS232, IEX bus
Power supply:	24V/100mA
Ingress protection:	IP20
Operating temperature:	0..45°C
Storage temperature:	-20..75°C
Relative humidity:	0..95% n/c
Mounting:	DIN rail (35mm)
Dimensions:	106x108x58mm
Weight:	325g
Standards:	EN 61000-6-2, EN 61000-6-3, EN 61131-1, EN 61131-2, EN 61000-3-2, EN 61000-3-3

Wireless outputs

Zigbee wireless solution

Dimensions



Devices

COM-NOK-IQ
gateway from CyBro
to Zigbee master

ZC-GW-485-EM
Zigbee master

wireless connection

up to 30m indoor

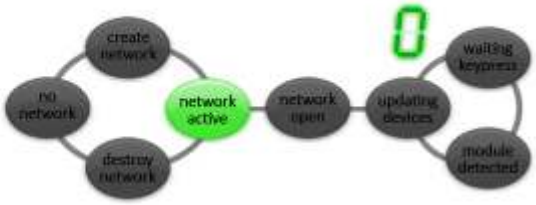
ZR-PLUG-EU-M
Zigbee 2.5kW relay
socket type

ZR-SWITCH-M
Zigbee 2.5kW relay
wall-mounted

up to 8 wireless outputs

Configuration

device status



initialization | ready | adding new devices

network status

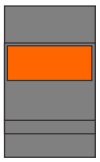
Configuration is a process of adding a new output devices. To add device, press "Add devices" button, wait until network state changes to "waiting keypress", switch on device, press a small button on it, and finally press "Finish adding" button. To return network into the initial state, press "Rebuild" button. For more details, check instructions supplied with device.

Status and control

Wireless outputs share common control with last ten light outputs (Light 30..Light 37). When wireless is used, the number of light controllers is limited to 3. Wireless outputs are part of the scene and behave exactly the same as other outputs.

Accessories

sensors, connectors, cables, adapters



PS-IQ
power supply 24V 2A

CAD-BC
RJ9 to cage clamp adapter
transition from internal to external IEX bus

CAD-P0
bus cable 2.5cm, RJ9/RJ9
connecting devices inside switchboard

CAD-2-BUT
2x mini-button
used for scene setting

CAD-P2
bus cable 2m, RJ9/RJ9
connecting devices inside switchboard

ES
temperature sensor

RE-2
remote controller

ES-A
temperature sensor

Customization

get the maximum out of your system

CyPro integrated development environment

The main goal of IQ customization is to use the existing IQ functionality, and upgrade or modify up to the required specifications. IQ system is very flexible and open for modifications of any kind. This page will give a short overview of what kind of modifications are possible.

Customization is for the one who wants to get the maximum out of the system. It requires a basic programming skills. Programming language is «structured text», a kind of very simplified Pascal. Development environment (editor, compiler, on-line monitor) is called CyPro, and it is free to download from www.cybrotech.co.uk.

standard IQ system

custom program

new IEX modules

Modified CyBro IQ program
- download program source directly from cybro
- modify existing cybro program up to your needs
- IQ commander and mini scada may stay the same
- very simple modification, large potential

Non-standard IQ configuration
- custom selection of IQ modules, e.g. 20x LC-10-IQ
- hardware setup, autodetect or manually add modules
- IQ Commander will recognize most configurations
- adjust cybro program and mini scada up to your needs

Combine IQ and non-IQ modules
- all IQ modules are fully IEX compatible
- delete unused IQ modules for hardware setup
- add your own selection of IEX modules
- modify cybro program according to your needs

Modify mini scada up to your needs
- no special environment is needed
- configuration consist of one text file and images
- use any image editor to create custom graphics
- create a custom application for Android or iPhone

IQ commander for non-IQ applications
- IQ commander can also serve new non-IQ applications
- allocate variables needed for autodetection manually
- use allocated variables in your cybro application
- for more details, ask for IQ commander specifications

Connect a few IQ systems together
- create system as big as you like
- implement global commands like «turn all lights off»
- connect individual IQs using cybro sockets
- socket is a simple cybro-to-cybro messaging system

Example

Task: count how many times a light is switched on

1. CyPro

- allocate a new variable lc00_qx00_count, make it retentive
- add the following three lines of code into cybro IQ program
- send program to cybro

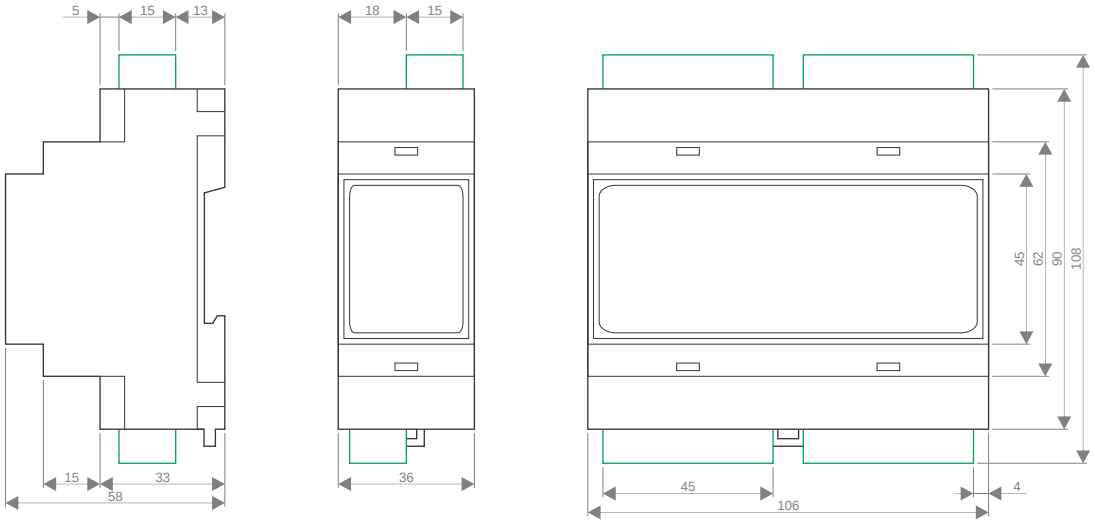
2. Mini scada

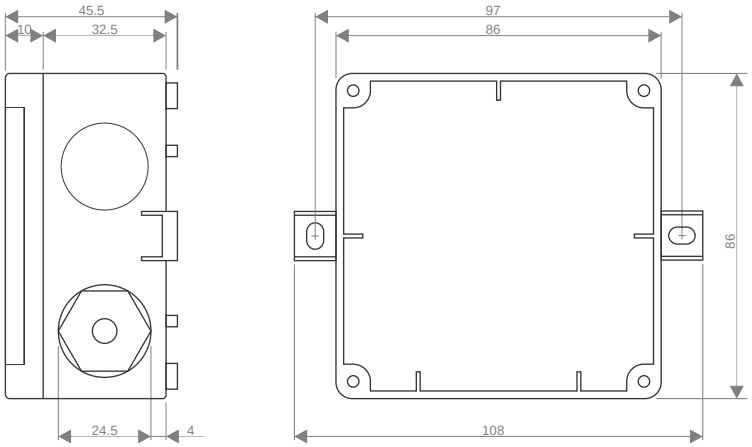
- open CyBroMiniScada.xml in text editor (Notepad)
- add object to xml configuration, inside the first page
- use scada (ctrl-E) to move object to the right place

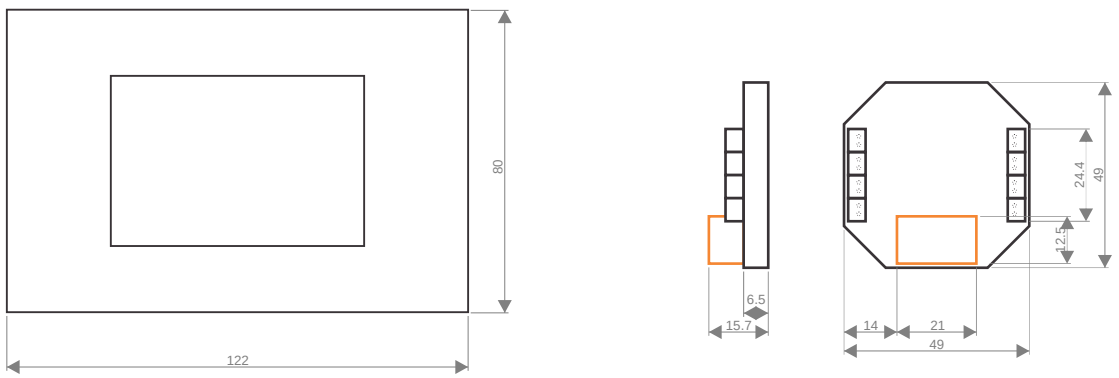
```
if fp(lc00_qx00) then
  lc00_qx00_count:=lc00_qx00_count+1;
end_if;
```

```
<object>
  <type>led</type>
  <var>c1000.lc00_qx00_counter</var>
  <digits>4</digits>
  <decimals>0</decimals>
  <zeroblanking>1</zeroblanking>
  <sign>0</sign>
  <ledcolor>$FF0000</ledcolor>
  <height>42</height>
  <x>100</x>
  <y>100</y>
</object>
```

Dimensions

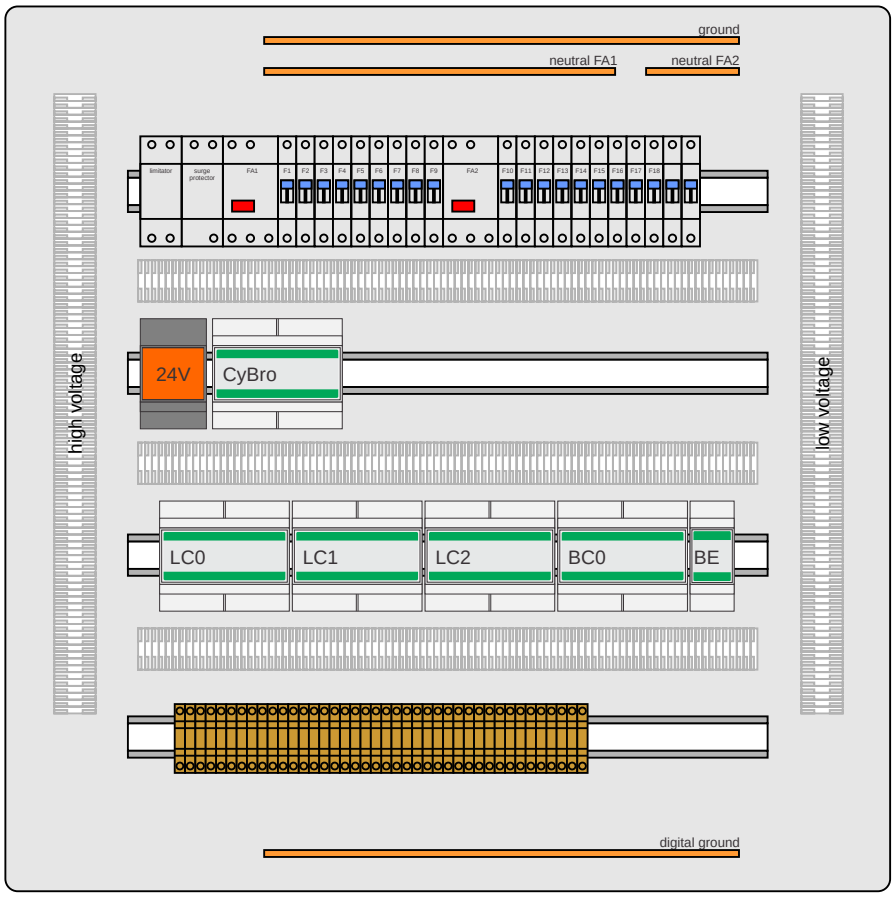

5
15
13
18
15
45
62
90
108
15
33
58
36
45
106
4


45.5
10
32.5
97
86
86
24.5
4
108

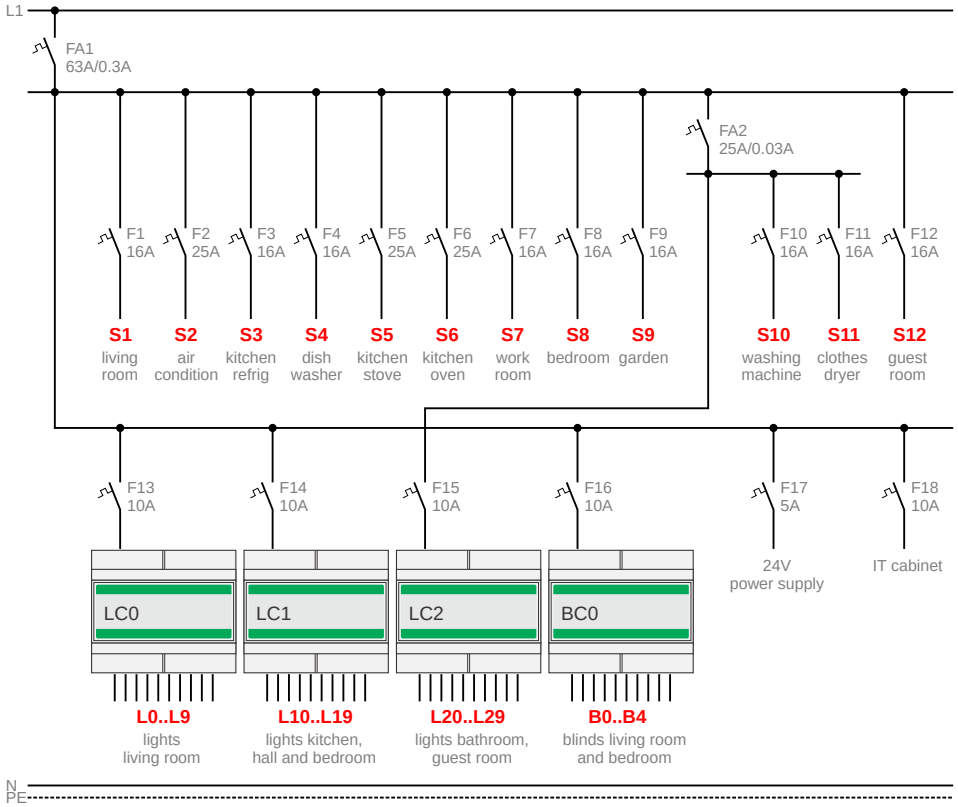

80
122
6.5
15.7
14
21
49
24.4
49
12.5

Project example

Switchboard design



Electrical connections



Order code

Devices

LC-10-IQ - light controller with 10 relay outputs
LD-V4-IQ - 4-channel constant voltage 12/24V LED dimmer
LD-D8-IQ - DALI master controller for 8 groups
BC-5-IQ - blinds controller for 5 blinds
SC-4O-IQ - scene controller in 3M housing
SC-4S-IQ - scene controller based on SW-W3 hardware
TH-1-IQ - thermostat based on OP-6 hardware
FC-1-IQ - fan-coil controller
CyBro-2-IQ - CyBro-2-24 with Integra IQ program

Accessories

PS-IQ - power supply 24V 2A
CAD-P0 - RJ9/RJ9 cable 2.5cm, module to module inside switchboard
CAD-P2 - RJ9/RJ9 IEX cable 2m, module to module inside swithboard
CAD-BC - RJ9 to UTP adapter, transition from internal to exteral IEX bus

CAD-2-BUT - 2x mini-button for LC-10-IQ and BC-5-IQ
RE-2 - miniature IR remote controller for SC-4O-IQ

ES - temperature sensor for TH-1-IQ or FC-1-IQ
ES-A - temperature sensor in aluminium housing for TH-1-IQ or FC-1-IQ

Software

CyBro IQ Commander - Android application
CyBro IQ Mini Scada - vizualization and configuration package
CyBro IQ Simulator - simulator to test the software without actual hardware
CyBro IQ Program - structure text program for CyBro controller

Android application
http://play.google.com/store/search?q=cybrotech&c=apps

Other tools and documentation
http://www.cybrotech.co.uk/index.php?module=file&path=/Integra%20IQ

Cybrotech Ltd.
14 Brinell Way
Harfreys Industrial Estate
Great Yarmouth
Norfolk, NR31 0LU - UK
www.cybrotech.co.uk
info@cybrotech.co.uk